

**METHODS OF MAKING AND USING SUBSTRATE SURFACES HAVING COVALENTLY BOUND
POLYELECTROLYTE FILMS**

ABSTRACT OF THE DISCLOSURE

Methods for stably associating a polyelectrolyte coating or film to a substrate surface, as well as the coated substrates produced thereby, are disclosed herein. In the subject methods, substrate surfaces are coated with a polyelectrolyte, and the coated substrate surfaces are treated with a bifunctional molecule under conditions sufficient to stably associate the film to the array surface. The subject methods find use in a variety of different applications, including the production of mircoarrays.

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